## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/015244

Ā.	CLASS	IFICAT	rion	OF SU	JBJECT	MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

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Minimum documentation searched (classification system followed by classification symbols)
Int.Cl<sup>7</sup> F16D48/02, F16H61/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Form PCT/ISA/210 (second sheet) (January 2004)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-146928 A (Komatsu Ltd.), 29 May, 2001 (29.05.01), Full text; all drawings & US 6405844 B1 Full text; all drawings	1-6,10-12
Y	JP 7-1993 A (Caterpillar Inc.), 06 January, 1995 (06.01.95), Column 6, lines 7 to 14; Fig. 3 & US 5380257 A Column 4, line 57 to column 5, line 4; Fig. 3 & EP 616918 A1	1-6,10-12
Y	JP 4-50519 A (Isuzu Motors Ltd.), 19 February, 1992 (19.02.92), Page 3, lower left column, lines 6 to 8; Fig. 1 (Family: none)	2

×	Further documents are listed in the continuation of Box C.		See patent family annex.
* "A"	Special categories of cited documents: document defining the general state of the art which is notconsidered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" "L"	earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"O" "P"	cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one of more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
•	priority date claimed	u.	i i i i i i i i i i i i i i i i i i i
Date	of the actual completion of the international search 14 December, 2004 (14.12.04)	Date	c of mailing of the international search report 28 December, 2004 (28.12.04)
	e and mailing address of the ISA/ Japanese Patent Office	Auti	norized officer

Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/015244

		PCT/JP2	004/015244
C (Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	Relevant to claim No.	
A	JP 11-230334 A (Komatsu Ltd.), 27 August, 1999 (27.08.99), Full text; all drawings (Family: none)		1-12
A	JP 3-92623 A (Toyoda Automatic Loom Work Ltd.), 17 April, 1991 (17.04.91), Full text; all drawings (Family: none)	1-12	
A	JP 2002-254961 A (Robert Bosch GmbH.), 11 September, 2002 (11.09.02), Full text; all drawings & DE 10065725 A & FR 2818936 A		1-12
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